BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for the work of: Improvements to road drain and footpath in cross roads of Devinagara in ward no. 08 Kodigehalli.**

Est Cost Rs. 4000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M300-10. Excavation in ordinary rock using manual means including loading in a truck and carrying of excavated material to embankment site and complete as per specifications. MORTH Specification No. 301 Page No. 142 / Item No. 19.10, PWD SR 2016-17	Cum							
	Desilting drains		2	222.00	0.75	1.20	399.60		
	sholder cutting		2	222.00	1.20	0.30	159.84		
			2	91.00	0.75	0.80	109.20		
			2	120.00	0.75	0.80	144.00		
	Basic Rate	213.00					**812.64**	225.78	**183478.00**
	Area Weightage @ 6%	12.78							
	Total	**225.78**							
2	KSRRB 500-3. **Scarifying existing stone metal layer upto 75mm** thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No. 161 / Item No. 21.30, PWD SR 2016-17	Cum							
			1	222.00		7.00	1554.00		
			1	91.00		6.00	546.00		
			1	120.00		6.00	720.00		
	Basic Rate	87.00					**2820.00**	92.22	**260060.00**
	Area Weightage @ 6%	5.22							
	Total	**92.22**							
3	KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with motor grader on prepared surface, mixingby mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B. By Mix in Place Method. - For Grading III Material Page No. 155 / Item No. 20.5.3, PWD SR 2016-17	Cum							
			1	222.00	7.00	0.20	310.80		
	Basic Rate	**1353.00**					**310.80**	1434.18	**445743.00**
	Area Weightage @ 6%	81.18							
	Total	**1434.18**							
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with	cum							
			1	222.00	7.00	0.20	310.80		
			1	91.00	6.00	0.20	109.20		

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	120.00	6.00	0.20	144.00		
	Basic Rate	1668.00					**564.00**	1768.08	**997197.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
5	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page	Sqm							
			1	222.00		7.00	1554.00		
			1	91.00		6.00	546.00		
			1	120.00		6.00	720.00		
							2820.00	27.56	**77719.00**
	Basic Rate	**26.00**							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
6	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications. - using bitumen 80/100 on **primed surfaces Page No. 162 / Item No. 21.10.2, PWD SR 2016-17**	Sqm							
			2	222.00		7.00	3108.00		
			1	91.00		6.00	546.00		
			1	120.00		6.00	720.00		
							4374.00	9.54	**41728.00**
	Basic Rate	9.00							
	Area Weightage @ 6%	0.54							
	Total	**9.54**							
7	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 162 / Item No. 21.11.6,	cum							
			1	222.00	7.00	0.050	77.70		
	Basic Rate	4941.00					**77.70**	5237.46	**406951.00**
	Area Weightage @ 6%	296.46							
	Total	**5237.46**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 Page No. 192 / Item No. 24.57, PWD SR 2016-17	cum							
			1	222.00	7.00	0.04	62.16		
			1	91.00	6.00	0.04	21.84		
			1	120.00	6.00	0.04	28.80		
							112.80	9012.12	**1016567.00**
	Basic Rate	8502.00							
	Area Weightage @ 6%	510.12							
	Total	**9012.12**							
9	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 192, Item No. 24.57) SR 2016-17	Sqm							
			2	222.00		0.15	66.60		
			33	3.50		0.15	17.33		
			2	91.00		0.15	27.30		
			13	3.50		0.15	6.83		
			2	120.00		0.15	36.00		
			17	3.50		0.15	8.93		
							162.98	685.82	**111772.00**
	Basic Rate	647.00							
	Area Weightage @ 6%	38.82							
	Total	**685.82**							
10	A) KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (Page No. 132 / Item No. 17.1) Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 10.00 Km etc complete as per specifications and directions of engineer in	**cum**							
				Qty Item No. 01			812.64		
	Historical Debries						80.00		
							892.64	106.00	**94620.00**
	2.5x1.28x10	**32.00**							
	Basic Rate	**68.00**							
		100.00							
	Area Weightage @ 6%	6.00							
	Total	**106.00**							

11	Miscellaneous and unforeseen charges		368.10
		Total Rs:-	4000000.00

(Rupees Forty lakhs)

CERTIFICATES

1 The work will be Executed within BBMP limit only
2 The work spot is inspected by me
3 The items Provided in the Estimate are quite Essential
4 The Estimate is prepared Based on CSR 2016-2017

Asst.Engineer
Waard No-8

Asst. Executive Engineer
Kodigehalli Subdivision
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore
05/04

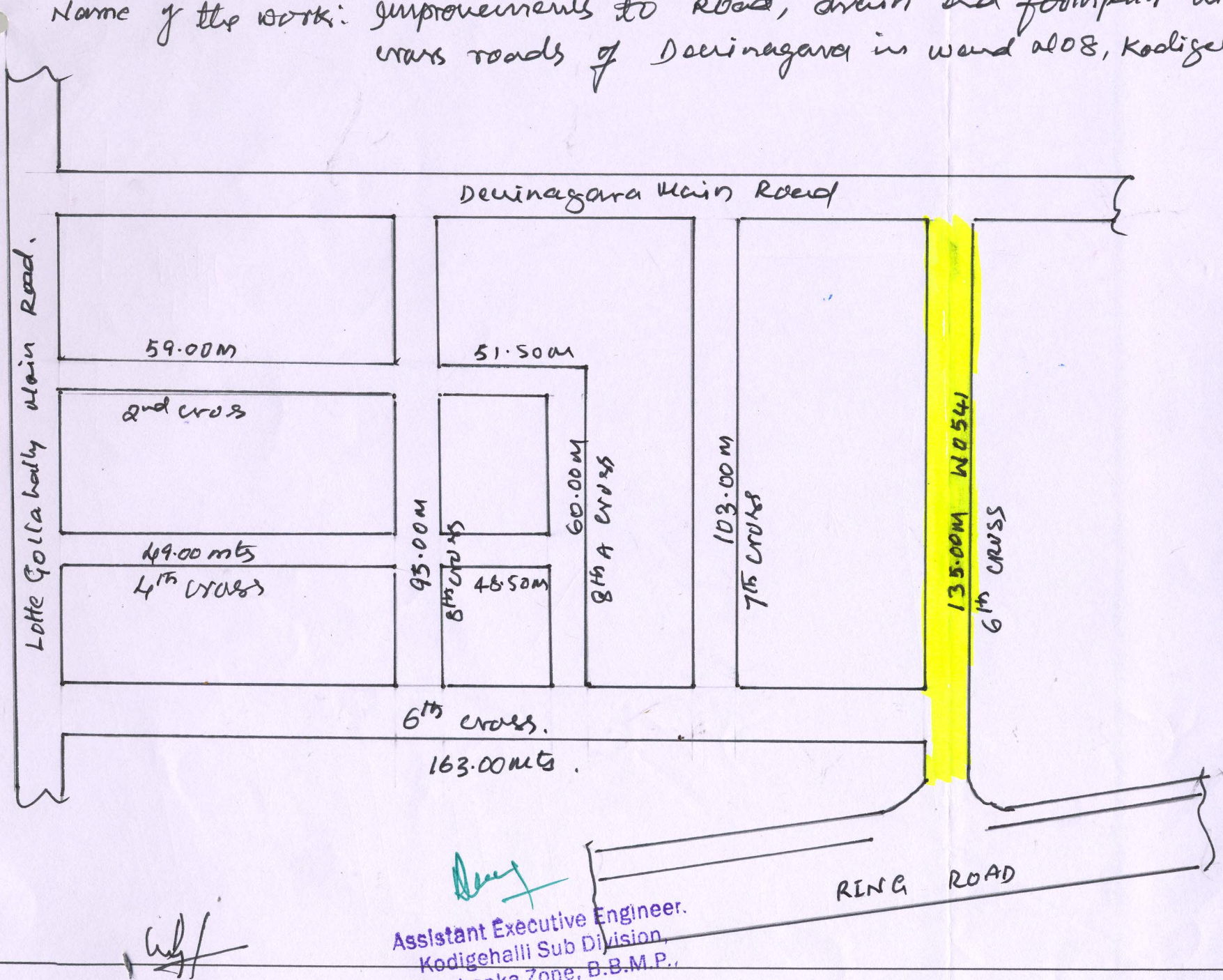
Technical Sanction
Accorded For 40.00 lakh Rs
Head of A/C P3111
CER NO : "02" **Dt:** 06.04.17

TA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs 40.00 lakhs
Rupees Forty lakhs
Under P3111
[illegible] conditions [illegible]
[illegible] No
Dt
JC(Y) AS/pa/ 01/17-18
dated 6-4-2017 for 40.00 lakhs.

Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

Name of the work: Improvements to Road, drain and footpath in cross roads of Devinagara in ward 108, Kodigehally



Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.